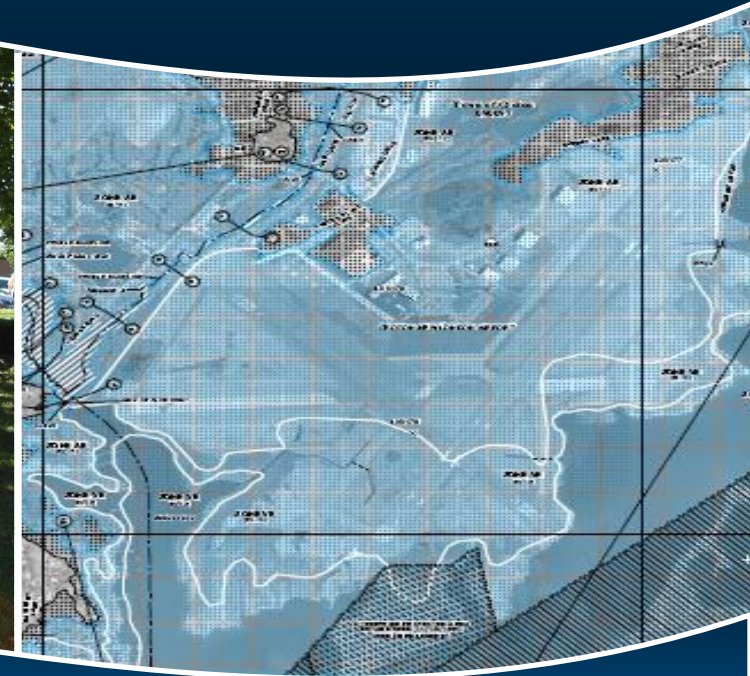
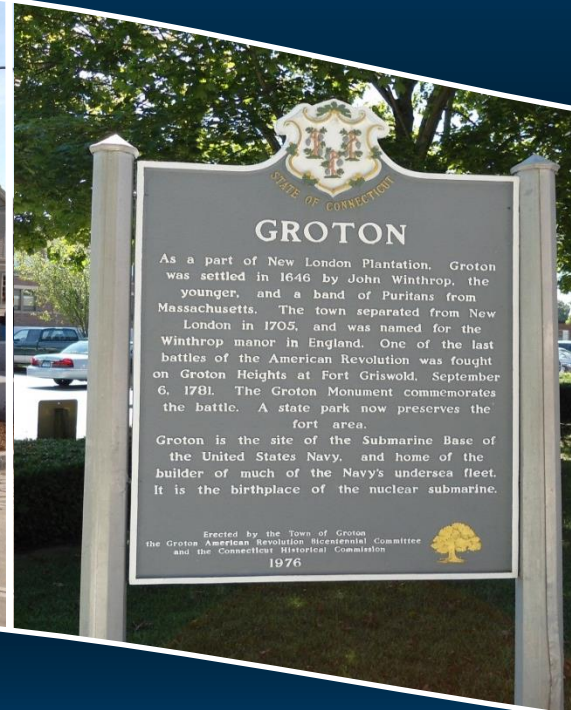


# 2013 Town of Groton Plan of Conservation & Development & Municipal Coastal Program *Municipal Coastal Program*



October 24, 2013

# Coastal Management Discussion – Coastal Resilience Focus

## ➤ Review of Area Plans

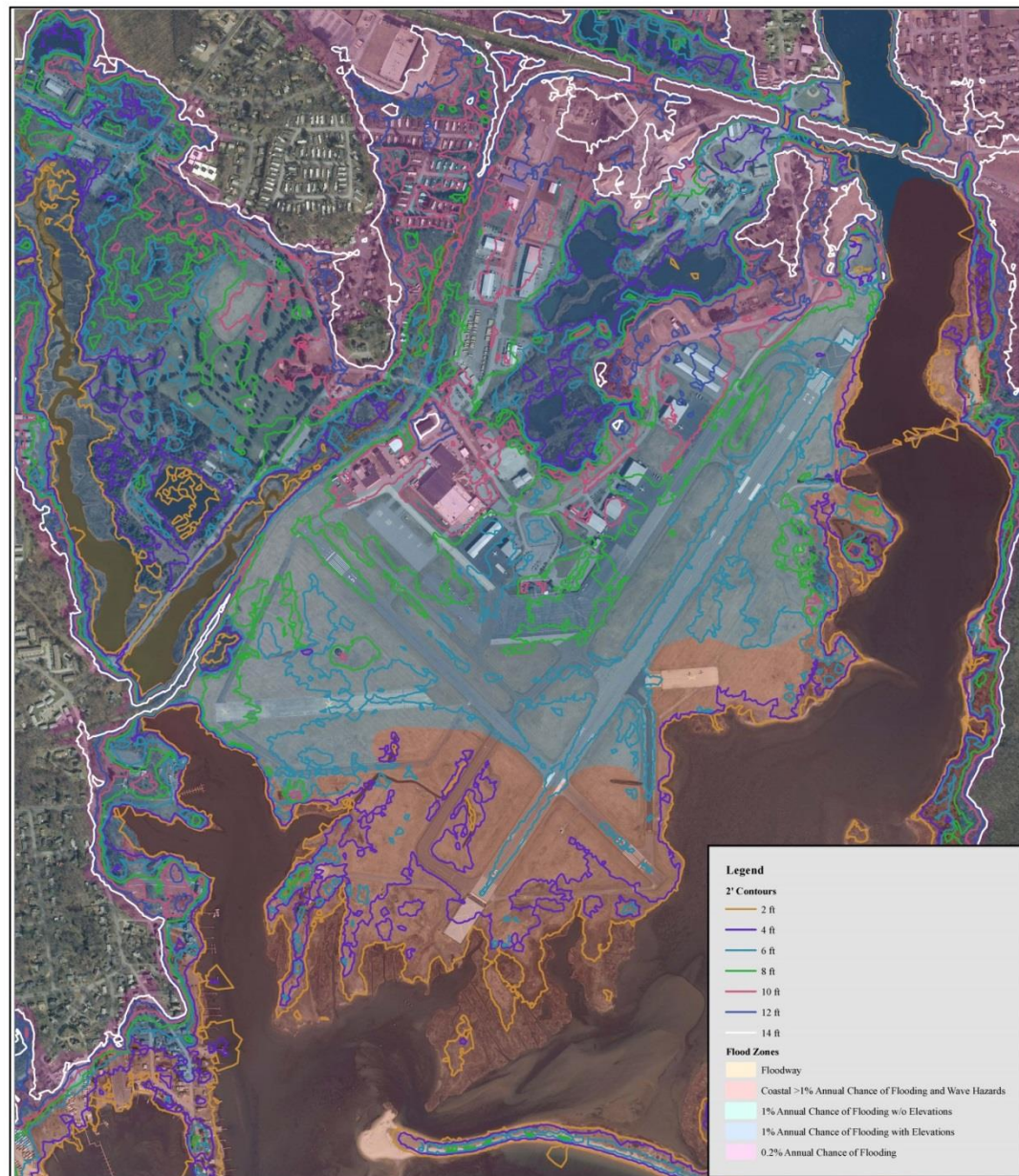
- Airport
- Esker Point
- Mystic



# **Airport Area**



# Airport LiDAR & FIRM



**SOURCE(S):**  
DFIRM FEMA, 2013  
LiDAR, 2000  
CT Ortho, 2010

**Figure 1-2: Groton-New London Airport**

**LOCATION:**  
**Groton, CT**



**Town of Groton Plan of Conservation &  
Development & Municipal Coastal Program**

Map By: JDW  
MMI#: 1461-08  
Original: 07/30/2013  
Revision: 7/31/2013  
Scale: 1 inch = 1,000 feet

**MILONE & MACBROOM**  
99 Realty Drive Cheshire, CT 06410  
(203) 271-1773 Fax: (203) 272-9733  
[www.miloneandmacbroom.com](http://www.miloneandmacbroom.com)

MXD: P:\1461-08 Design\GIS\Maps\Fig1-2\_Airportarea.mxd



# Airport – Sandy Inundation

*Note: The U.S. Geological Survey (USGS) deployed a temporary monitoring network of water-level and barometric pressure sensors at 224 locations along the Atlantic coast from Virginia to Maine to continuously record the timing, areal extent, and magnitude of hurricane storm tide and coastal flooding generated by Hurricane Sandy. These records were greatly supplemented by an extensive post-flood high-water mark (HWM) flagging and surveying campaign from November to December 2012 involving more than 950 HWMs.*



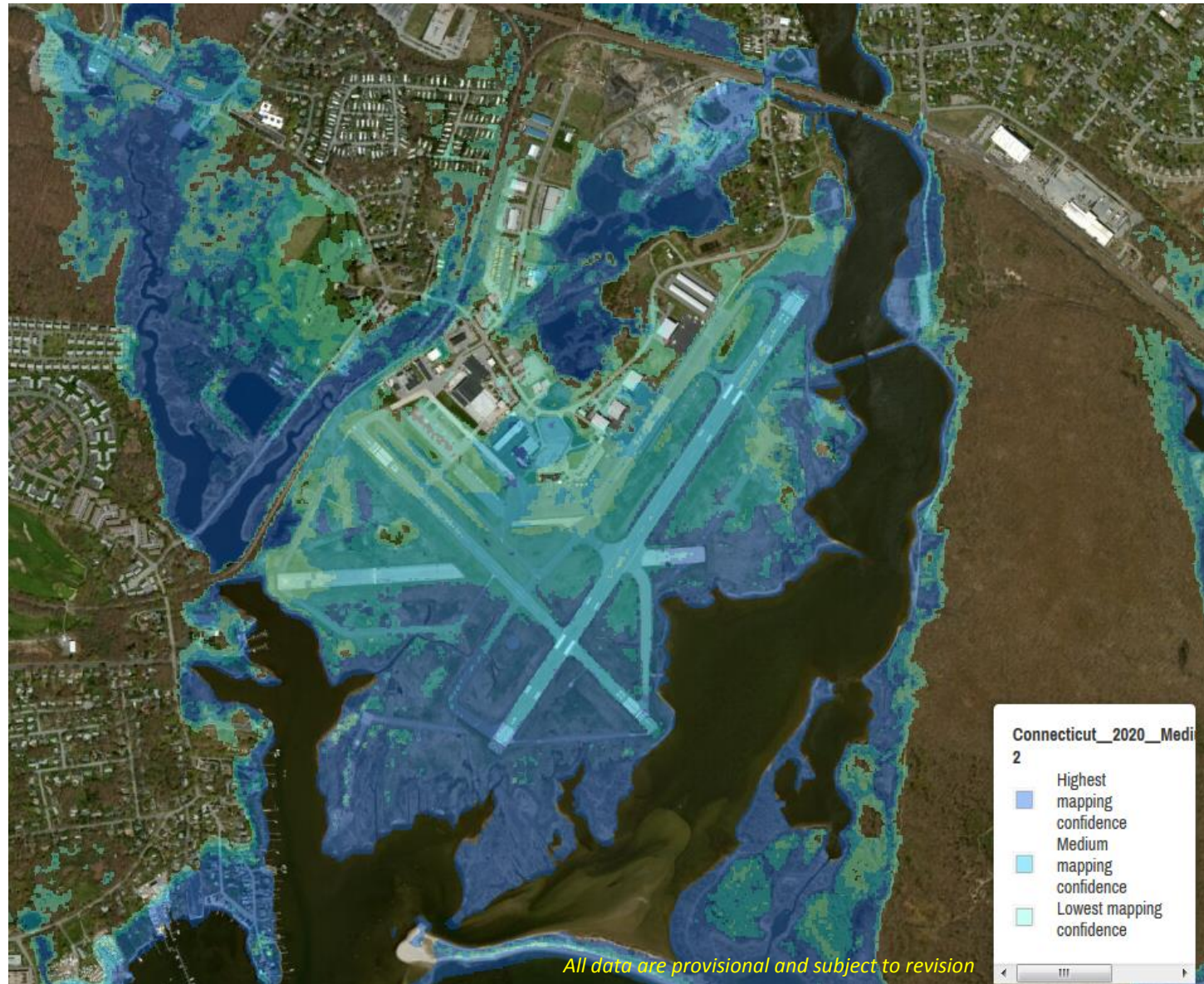


# Projected Inundation: 2020s – Daily High Tide



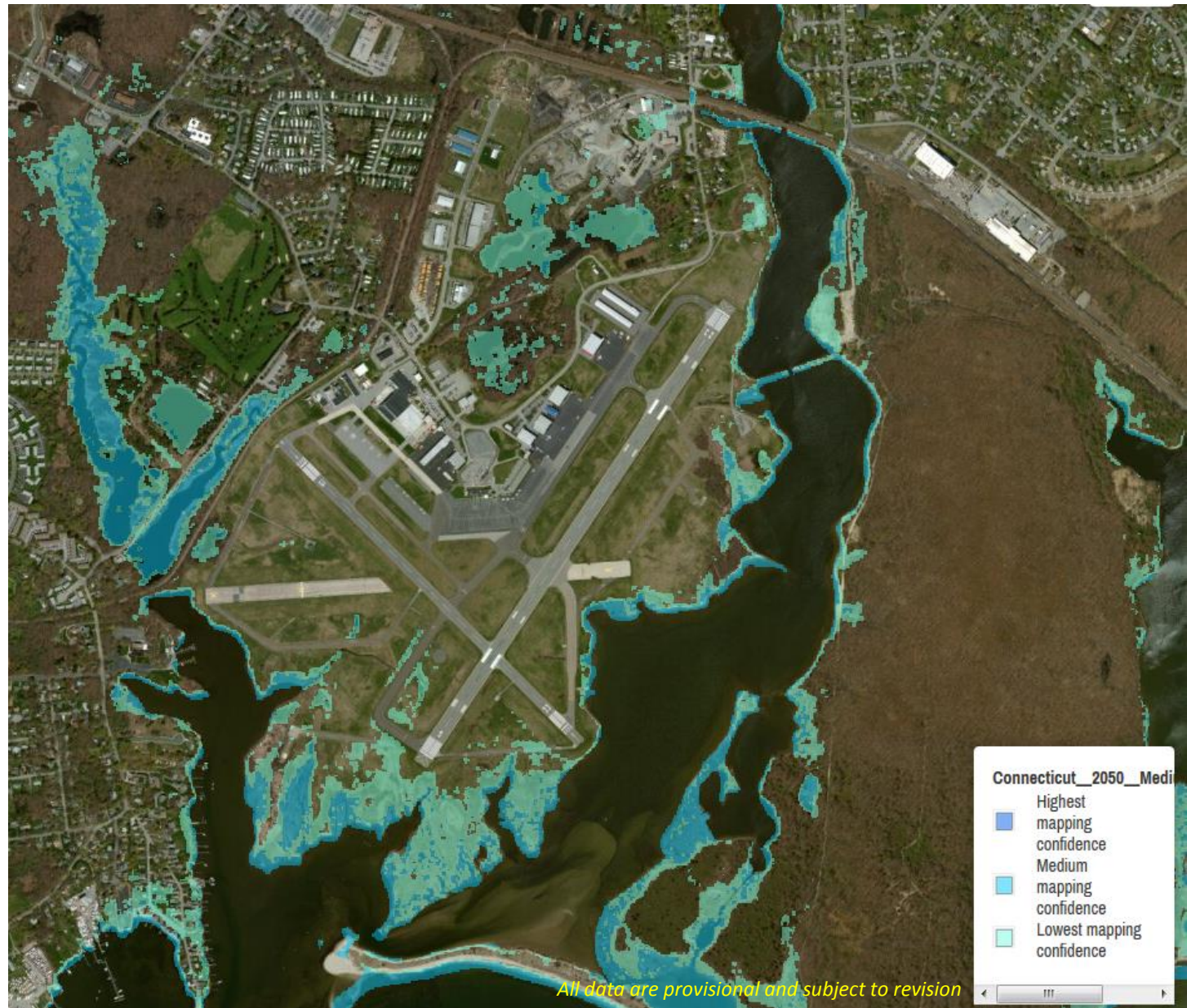


# Projected Inundation: 2020s – Category 2 Storm



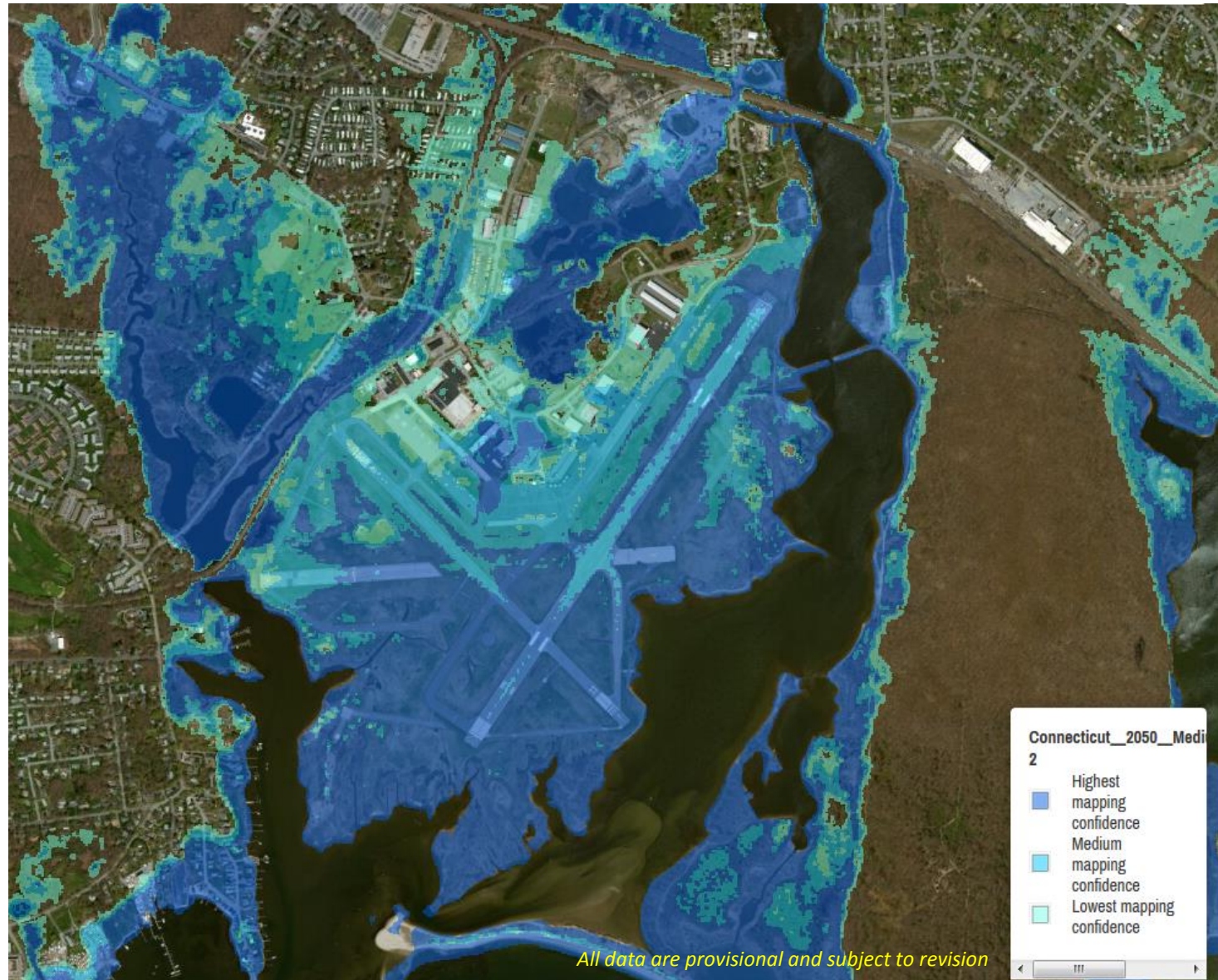


# Projected Inundation: 2050s – Daily High Tide





# Projected Inundation: 2050s – Category 2 Storm



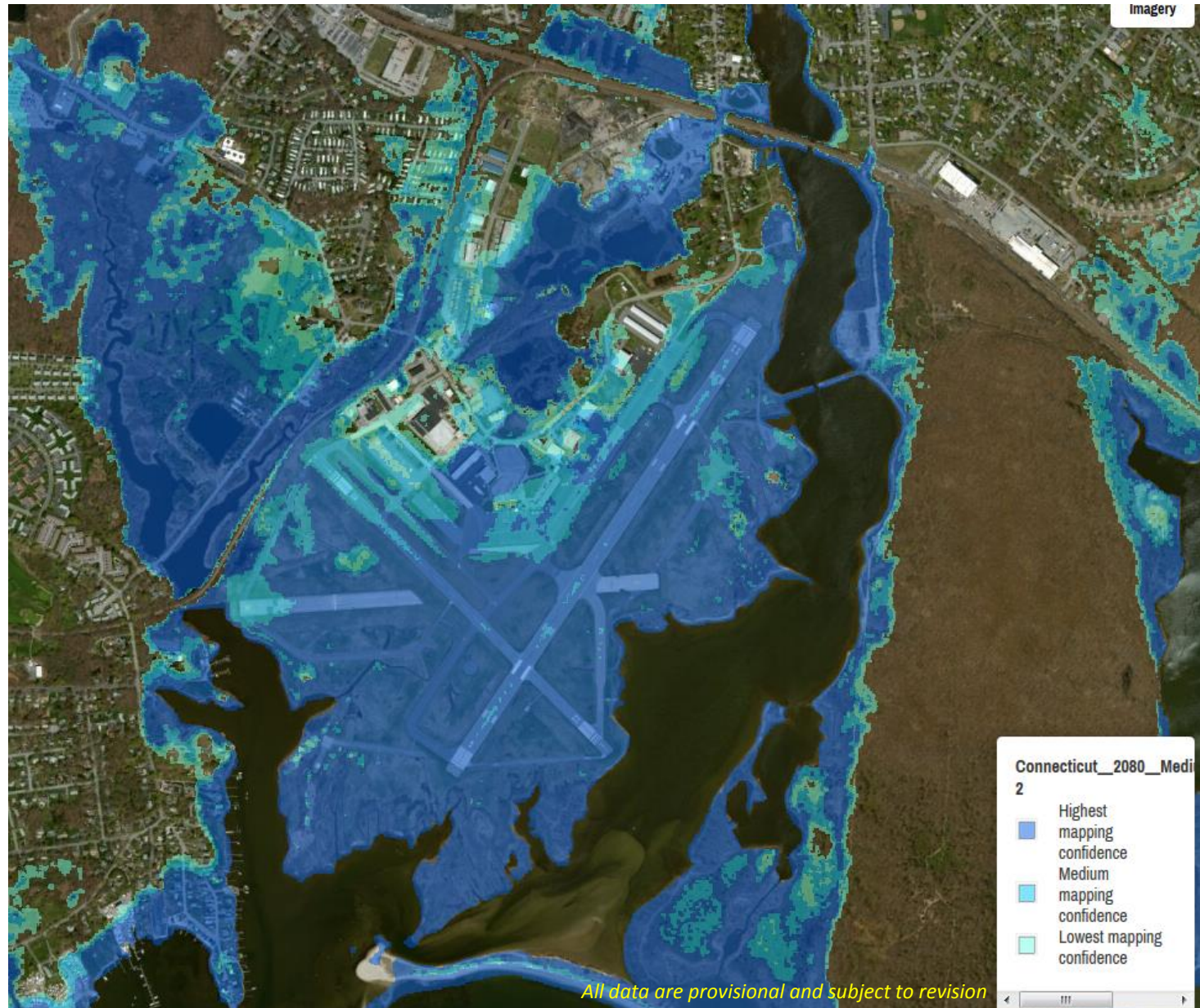


# Projected Inundation: 2080s – Daily High Tide





# Projected Inundation: 2080s – Category 2 Storm





# TOWN OF GROTON MUNICIPAL COASTAL PLAN

## GROTON-NEW LONDON AIRPORT AND AIRPORT BUSINESS PARK





# **Esker Point Beach and Park**

# Esker Point LiDAR & FIRM



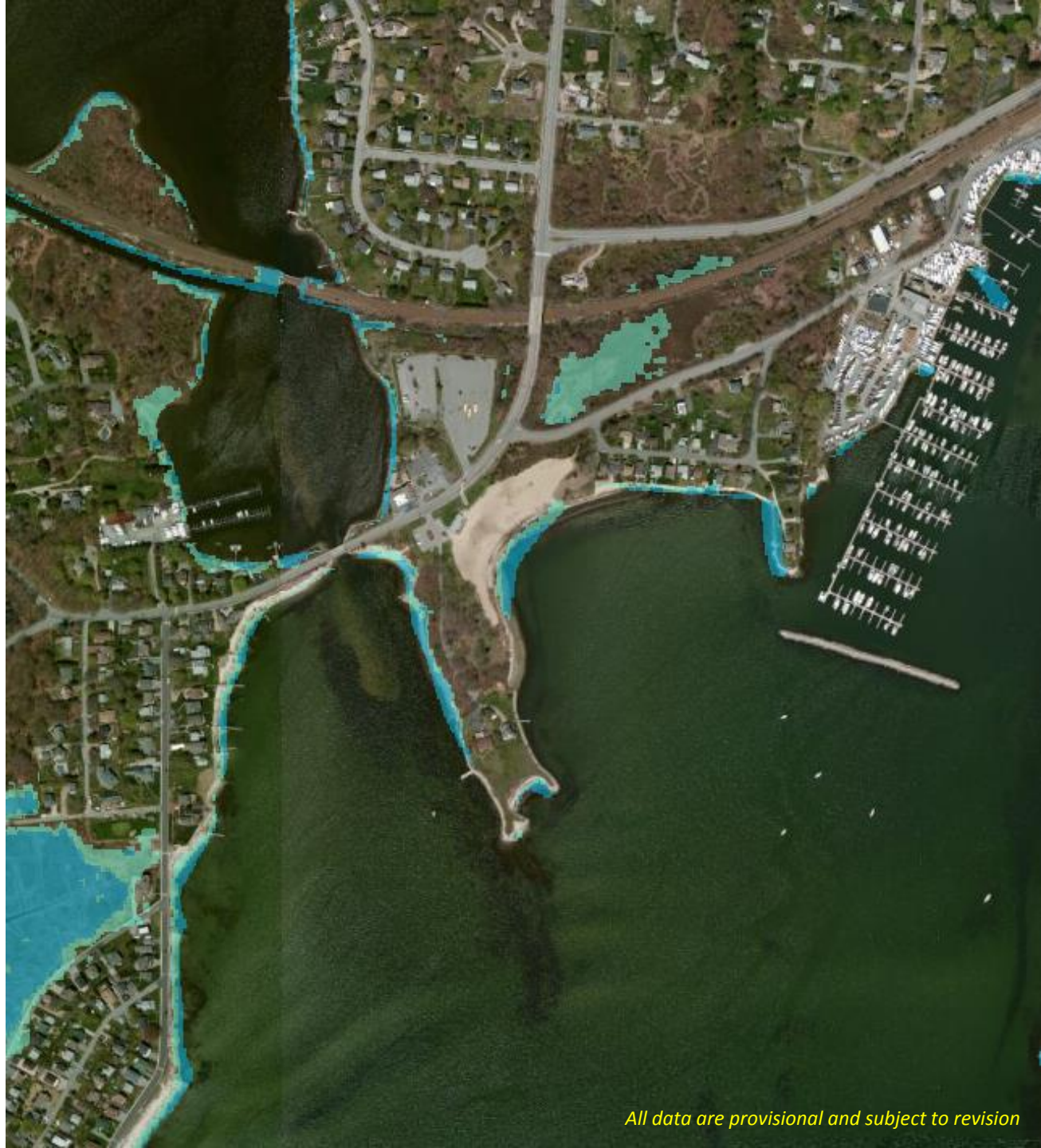


# Esker Point – Sandy Inundation

*Note: The U.S. Geological Survey (USGS) deployed a temporary monitoring network of water-level and barometric pressure sensors at 224 locations along the Atlantic coast from Virginia to Maine to continuously record the timing, areal extent, and magnitude of hurricane storm tide and coastal flooding generated by Hurricane Sandy. These records were greatly supplemented by an extensive post-flood high-water mark (HWM) flagging and surveying campaign from November to December 2012 involving more than 950 HWMs.*



# Projected Inundation: 2020s – Daily High Tide



Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2020s – Category 2 Storm

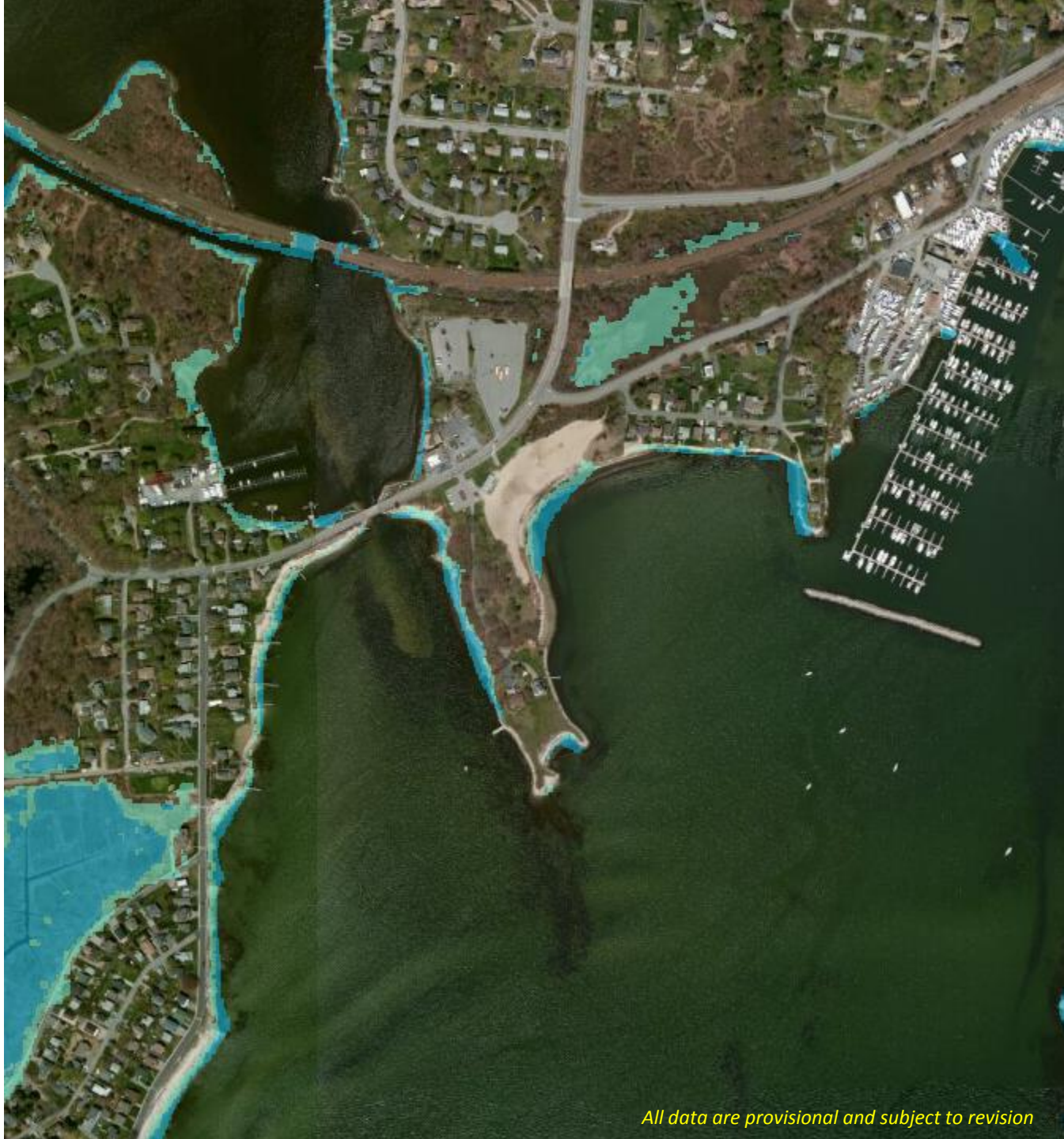


Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2050s – Daily High Tide



Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2050s – Category 2 Storm

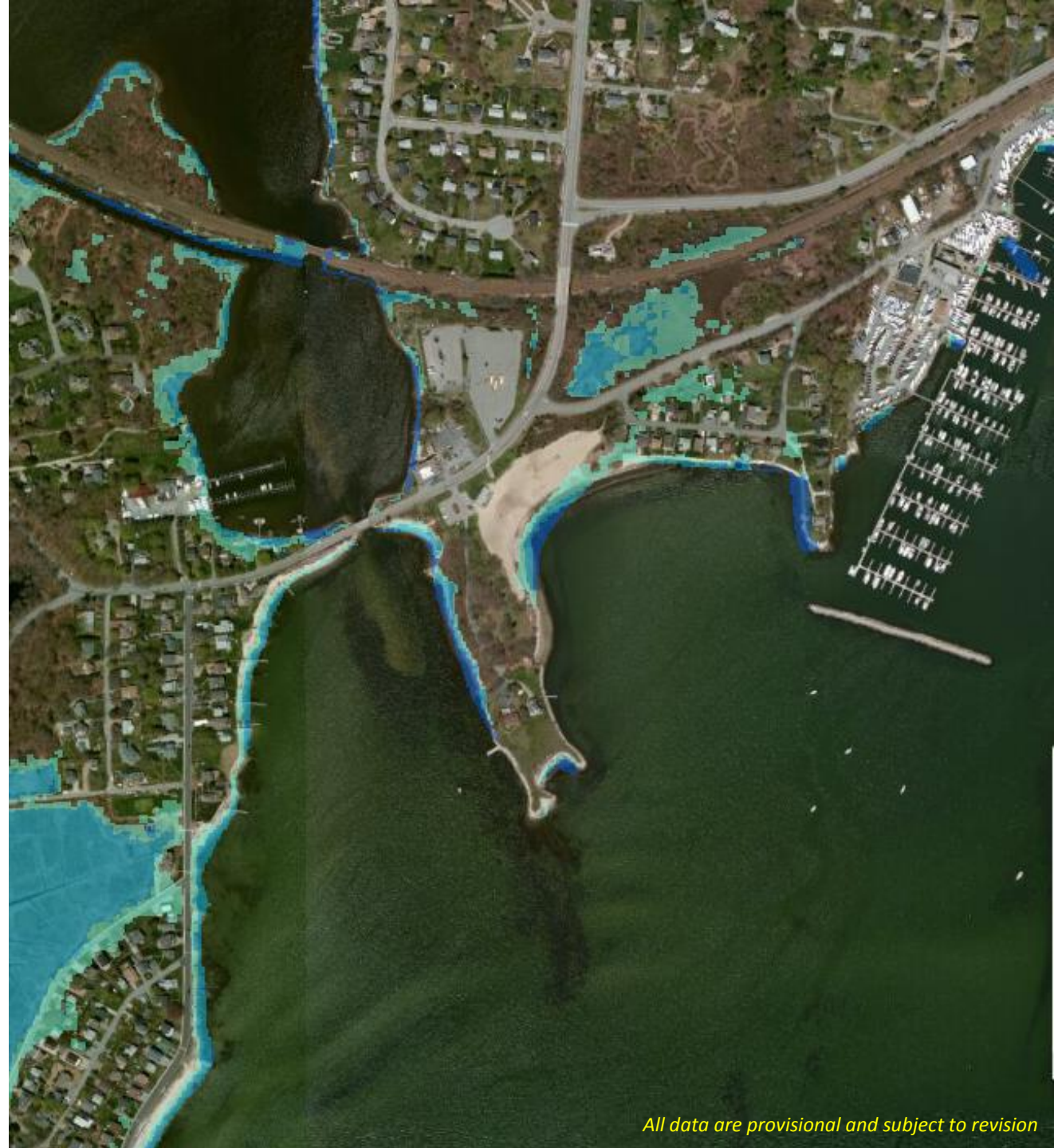


Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2080s – Daily High Tide

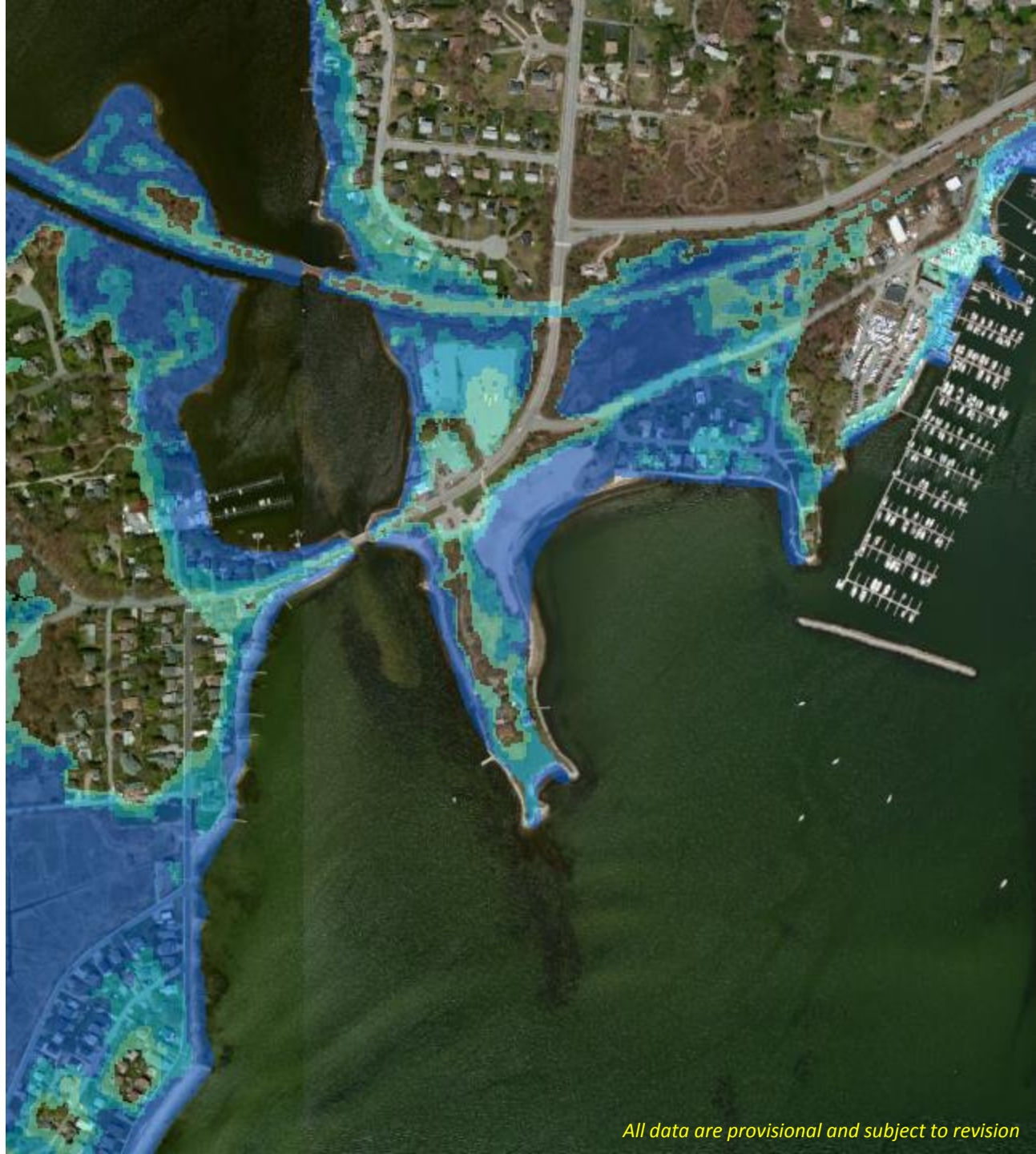


Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2080s – Category 2 Storm



Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*

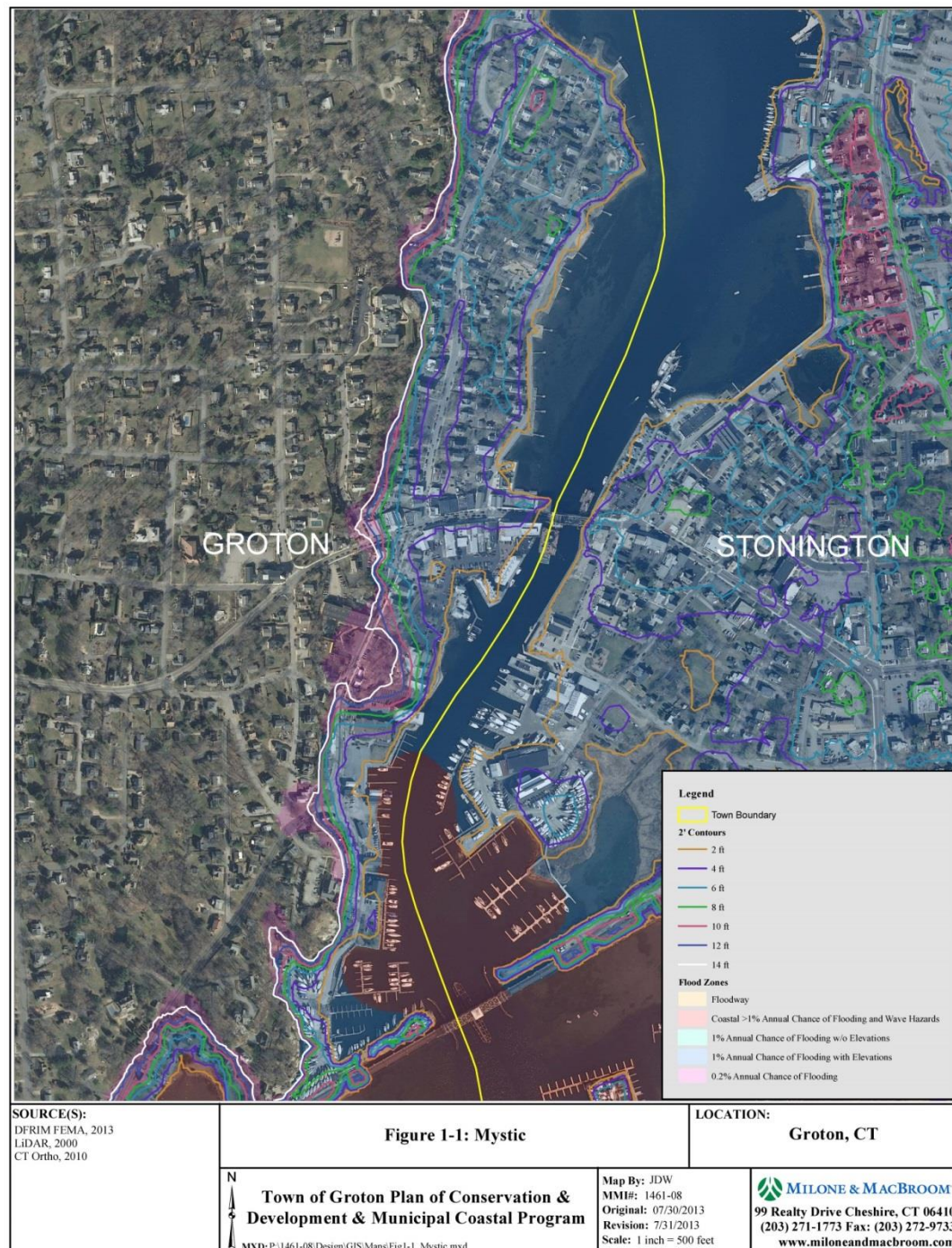


**TOWN OF GROTON MUNICIPAL COASTAL PLAN**  
**ESKER POINT BEACH AND ESKER POINT WATERFRONT PARK**



**Mystic**

# Mystic LiDAR & FIRM





# Mystic – Sandy Inundation

Note: The U.S. Geological Survey (USGS) deployed a temporary monitoring network of water-level and barometric pressure sensors at 224 locations along the Atlantic coast from Virginia to Maine to continuously record the timing, areal extent, and magnitude of hurricane storm tide and coastal flooding generated by Hurricane Sandy. These records were greatly supplemented by an extensive post-flood high-water mark (HWM) flagging and surveying campaign from November to December 2012 involving more than 950 HWMs.





# Projected Inundation: 2020s – Daily High Tide



Source: Columbia University Earth Institute/NASA Goddard Institute for Space Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2020s – Category 2 Storm



*All data are provisional and subject to revision*



# Projected Inundation: 2050s – Daily High Tide

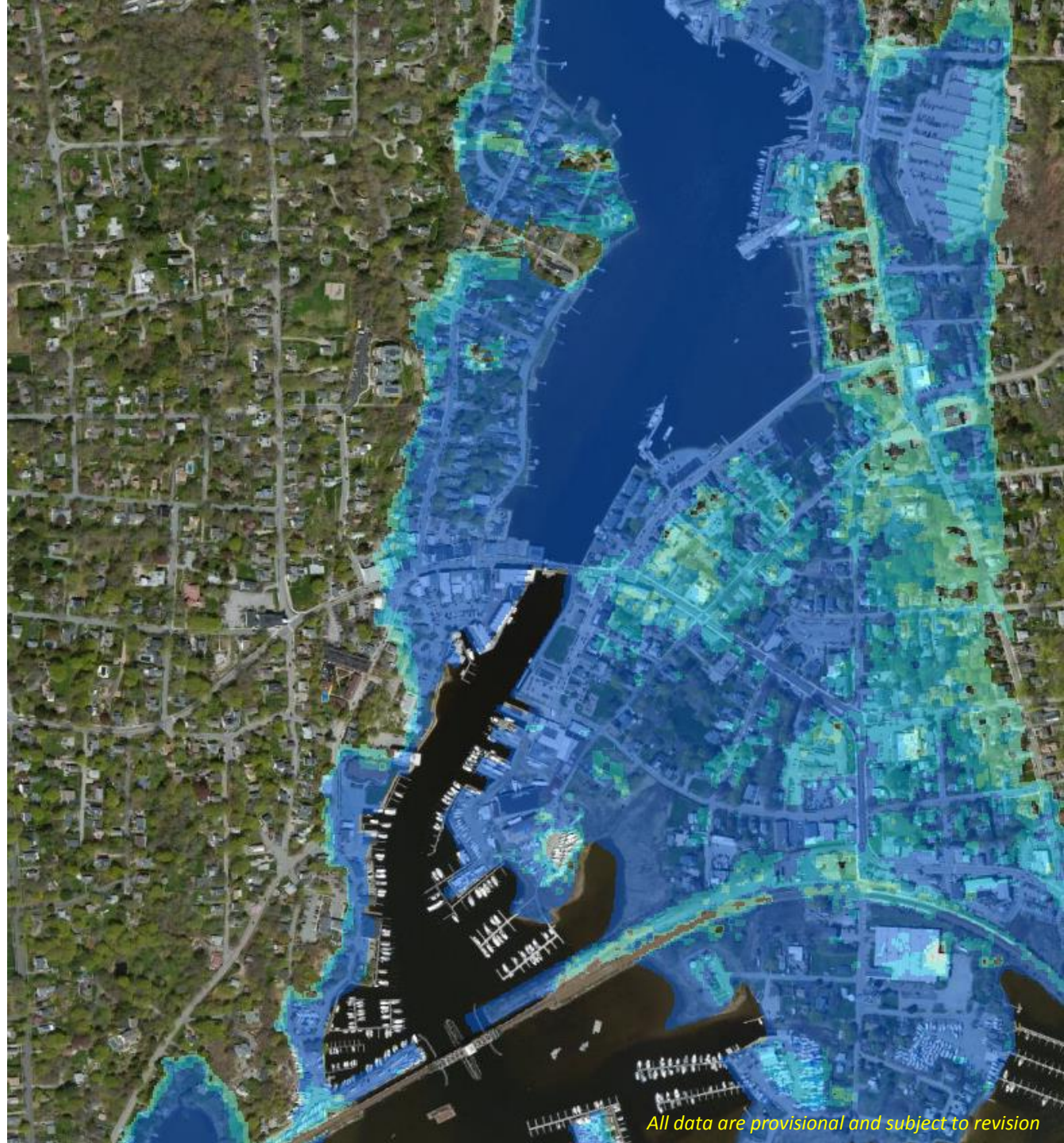


Source: Columbia University Earth  
Institute/NASA Goddard Institute for  
Space Studies/The Nature  
Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2050s – Category 2 Storm



Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2080s – Daily High Tide

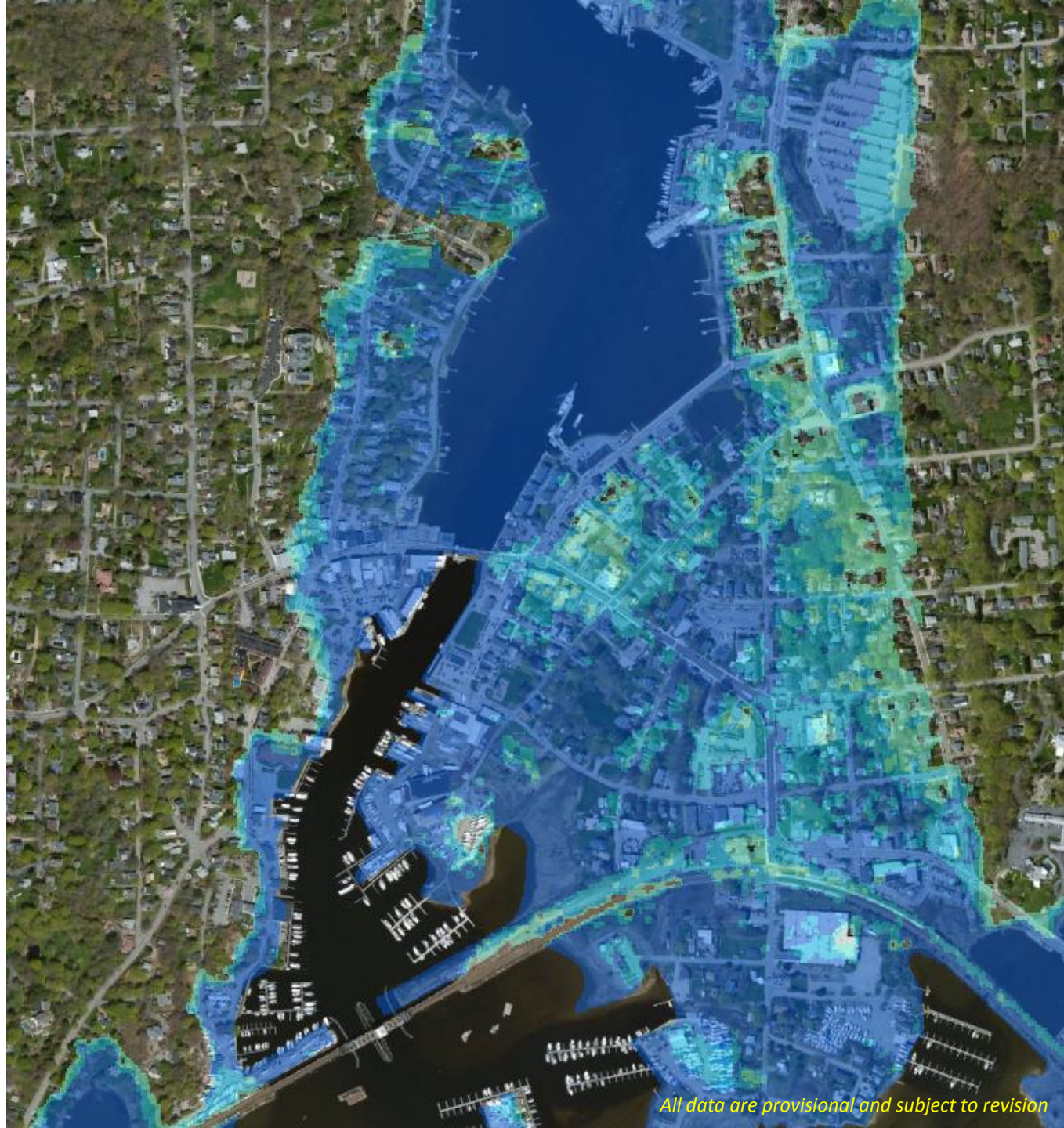


Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013

*All data are provisional and subject to revision*



# Projected Inundation: 2080s – Category 2 Storm



*All data are provisional and subject to revision*

Source: Columbia University Earth  
Institute/NASA Goddard Institute for Space  
Studies/The Nature Conservancy 2013



## TOWN OF GROTON MUNICIPAL COASTAL PLAN

### MYSTIC SHORELINE - NORTH OF RTE 1

- ★ ELEVATE RESIDENTIAL BUILDINGS WITH THE DESIGN ELEVATION SELECTED BASED ON SEA LEVEL RISE PROJECTIONS
- • • REVETMENTS AND ROCK WALLS WHICH MAY REQUIRE NEW DESIGNS AND REPLACEMENT AS THEY REMAIN VULNERABLE TO INCREASING COASTAL HAZARDS

CONSIDER CAR-TOP  
BOAT LAUNCH

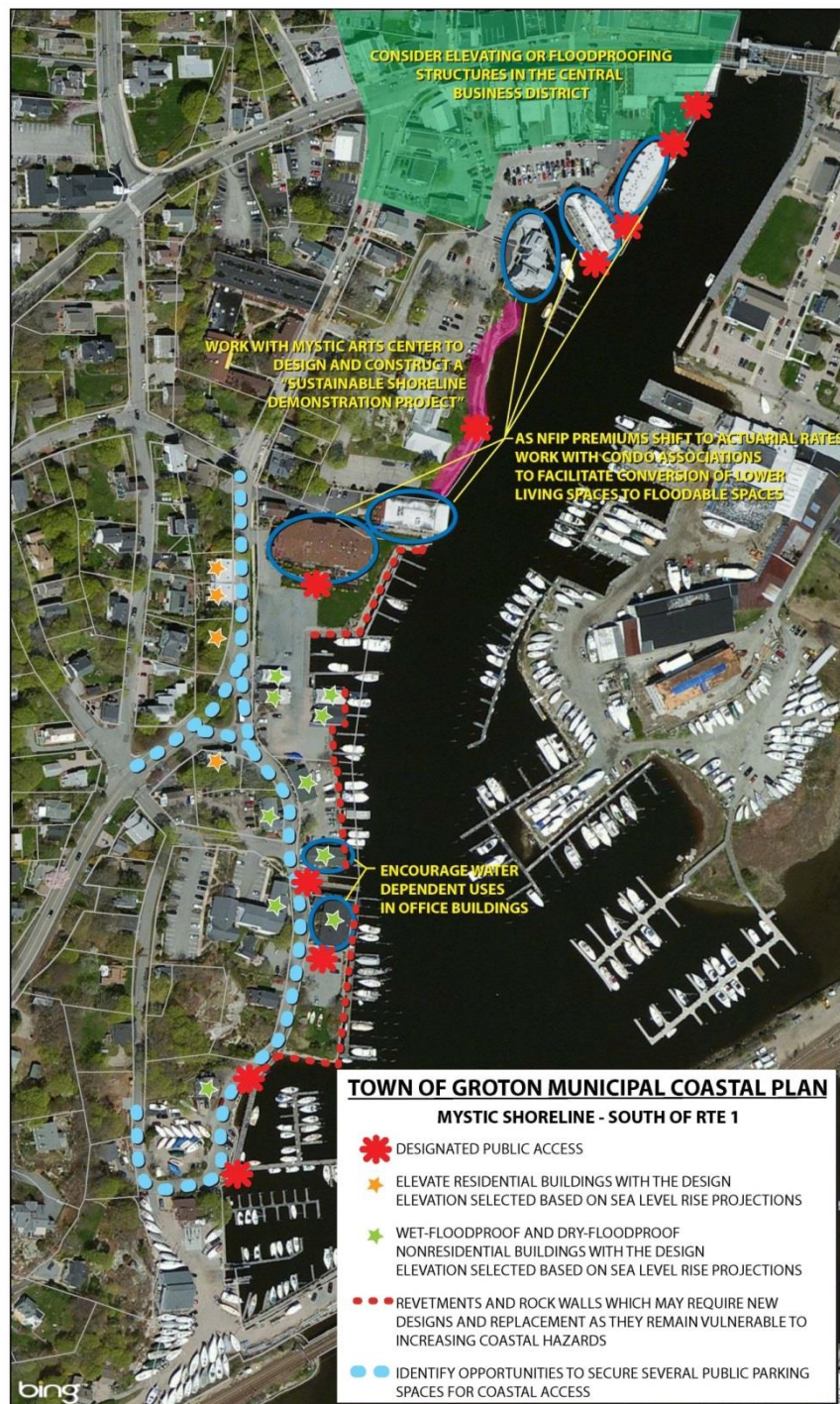
IDENTIFY OPPORTUNITIES TO SECURE LIMITED  
PUBLIC PEDESTRIAN ACCESS TO THE EDGE  
OF THE WATER

REPAIR SMALL POTHOLES  
NEAR TOPS OF THE  
WALLS AND REDUCE  
THE NUMBER OF  
STORMWATER  
OUTFALLS WHEN OTHER  
STORMWATER OPPORTUNITIES  
ARISE

PROTECT PUMPING  
STATION FROM  
COASTAL HAZARDS

CONSIDER ELEVATING OR FLOODPROOFING  
STRUCTURES IN THE CENTRAL  
BUSINESS DISTRICT









Questions and Comments?